32761

5/205/61/001/006/021/022 D243/D305

27.2400 als 2209

AUTHORS:

Semenov, L.F., Avdzhian, M.V., Bochkov, N.P., and

Topchiyan, L.N.

Cell division and nucleic acid metabolism in the muco-TITLE:

sa of the small intestine after treating animals with

radio-protective substances

Radiobiologiya, v. 1, no. 6, 1961, 953 - 957 PERIODICAL:

TEXT: The authors wished to study the effects of the most efficient radio-protective substances (β -mercaptoethylamine, adrenaline, acetylcholine and combinations of these) on cell division and nucleic acid metabolism in the mucosa of the small intestine in normal animals. Data in this field are few and contradictory. Optimally protective doses of the named substances were given to 198 white rats, of 200 - 230 g weight, and 179 guinea-pigs of 300-450 g weight, of both sexes. The animals were killed 10 - 15 mins., and 1 and 3 hours later. To study nucleic acid metabolism, 16 - 20 mi-crocuries of 32P in sodium phosphate, in 0.2 - 0.3 ml of aqueous solution, were given subcutaneously immediately after the protecti-Card 1/3

s/205/61/001/006/021/022 32761 D243/D305

Cell division and nucleic acid ...

ve substances and the animals were killed three hours later. Sections of intestinal mucesa were treated with 10 % trichloroacetic acid and separation of the nucleic fraction and fractionation of DNA was carried out by a modified Schmidt-Tangauzer method. Radioindicated the rate of nucleic compound synthesis. In studying cell phosphorus uptake, measured with a division, the control and experimental animals were killed at the same time. Mitosis was estimated on fixed and stained diodenal sections, the results being assessed statistically by Fisher-Styndentis method. β -mercaptoethylamine and acetylcholine had no effect on the metabolism of nucleic acids and the DNA fraction. Adrenaline caused marked depression (60 - 88 %) in both animals, as did adrenaline plus acetylcholine (72 - 92 %). 75 rats and 79 guinea-pigs were used for mitosis estimation. β -mercaptoethylamine and acetylcholine caused a transient depression of mitotic activity which developed rapidly (15 mins) and was greater in rats (24 - 31 %). Adrenaline caused a gradual depression in guinea-pigs (28 %) and rats (29 %) maximal in three hours. Adrenaline plus acetylcholine caused rapid, prolonged depression. The actions of acetylcholine were confirmed by supplementary experiments. It seems that acetylcholine Card 2/3

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Cell division and nucleic acid ...

and β -mercaptoethylamine shorten the prophase and metaphase by almost 50 % and thus speed up the mitotic process. Adrenaline only depresses cell division. No correlation could be established between the radioprotective effect of these substances and their effect on nucleic acid metabolism and cell division. There are 5 tables and 11 references: 5 Soviet-bloc and 6 non-Soviet-bloc. The references to the English-language publications read as follows: C. Van der Meer and D. van Bekkum, Inter. J. Radiat. Biol., , 5, 1959; R. Conard, Radiation res., 1, 492, 1954, 1959; J. Maisin, J. Moutschen, J. Novelli and D. Doherty, Radiation res., 11, 3, 453, 1959.

ASSOCIATION:

Institut eksperimental noy patologii i terapii AMV SSSR, Sukhumi (Institute of Experimental Pathology

and Therapy, AMS USSR, Sukhumi)

SUBMITTED:

June 22, 1961

Card 3/3

27.2400

11850 S/205/62/002/004/014/014 IO15/I215

AUTHORS:

Zeytunyan, K.A., Konstantinova, M.M., and Semenov, L.F.

TIPLE:

The effect of certain antiradiation agents on the oxygen level in tissues in relation with their effect

on the radiosensitivity of animals

PERIODICAL: Radiobiologiya, v.2, no.4, 1962, 616-619

ments were carried out on albino mice of both sexes, weighing 18-20g. Adrenalin (0.02mg/mouse), acetylcholin (0.6mg/mouse), tryptamine (1.5mg/mouse), serotonin (0.5mg/mouse), phenylethylamine (0.8mg/mouse), thiourea (45.0mg/mouse) and aminoethylisothiouracil (AET) (3.0mg/mouse) were injected s.c. in aquaeous solutions. The oxygen tension in liver and spleen was determined polarographically. The effect of these substances on the oxygen tension was different for spleen and for liver, and varied also with each substance. Acetylcholin brought about the most marked

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S/205/62/002/004/014/014 1015/1215

The effect of certain antiradiation ...

decrease in oxygen tension in both the spleen (59%) and the liver. The combined administration of serotonin, edrenalin and tryptamine with acetylcholin, brought about a moderate increase in hypoxia with acetylcholin, brought about a moderate increase in hypoxia in the spleen, in comparison with acetylcholin alone, whereas in the spleen, in comparison with acetylcholin. No such phenylethylamine lowered the effect of acetylcholin. No such effect was observed, however, in the liver. A certain parallelism effect was observed, however, in the liver. A certain parallelism was found to exist between the hypoxia-promoting-effect, and the was found to exist between the hypoxia-promoting-effect, and it was radioprotective properties of the substances examined, and it was radioprotective properties. The sulphur-containing compounds the oxygen tension in tissues. The sulphur-containing compounds did not affect the oxygen tension and it was therefore assumed that the radioprotecting mechanism of these compounds is of a different nature. There are 4 figures and 1 table.

ASSOCIATION: Institut eksperimental noy patologii i terapii AMN SSSR, Sukhumi (Institute of Experimental

Card 2/3

SEMENOV, L.F.

Use of streptomycin in the prevention of acute radiation aickness. Antibiotiki 7 no.10:912-916 0.62 (MIRA 16:12)

1. Institut eksperimental'noy patologii i terapii AMN SSSE, Sukhumi.

SPASSKAYA, I.G.; PLATONOVA, G.N.; SOLOPAYEVA, I.M.; SEMENOV, L.F.; ZEYTUNYAN, K.A.; LARIONOV, L.F.

Reducing the toxicity of dopan by means of aminoethylisothiuronium (AET) in experiments on monkeys. Vop. onk. 9 nc.12:44-46 '63.

(MIRA 17:12)

l. Iz laboratorii eksperimental'noy khimioterapii (zav. - chlen-korrespondent AMN SSSR prof. L.F. Iarionov) Instituta eksperimental'noy i klinicheskoy onkologii AMN SSSR (direktor-deystvitel'nyy chlen AMN SSSR prof. N.N. Blokhin) i iz laboratorii radiobiologii (zav. - L.F. Jemenov) Instituta eksperimental'noy patologii i terapii (direktor - prof. B.A. Iapin). Adres avtorov: Moskva, I-110, ul. Shchepkina, 61/2, korp.9, Institut eksperimental'noy i klinicheskoy onkologii AMN SSSR.

SEMENOY, L.F

AID Nr. 995-2

PROPHYLACTIC EFFECT OF SEROTONIN ON ACUTE RADIATION SICKNESS IN MONKEYS (USSR)

Semenov, L. F., L. F. Larionov, M. F. Petrova, Ye. Ch. Pukhal'skaya, and K. A. Zeytunyan. Meditsinskaya radiologiya, v. 8, no. 4, Apr 1963, S/241/63/008/004/002/006 58-62.

Rhesus monkeys weighing 2.5 to 4.0 kg were subjected to total-body Y-radiation (Co⁶⁰) with a single dose of 630 r (LD₉₀) or 700 r (LD₁₀₀) at 96 to 102 r/min. To prevent dysentery, the animals were given levomycetin (400 mg per animal) and biomycin (100 mg per animal) every other day starting 24 hrs after exposure. Serotonin hydrochloride was injected intramuscularly (aqueous solutions) in doses of 50 to 175 mg/kg or 35 to 40 mg/kg 5 to 10 min before irradiation; doses of 100, 150, and 175 mg/kg proved toxic. Spasms salivation, and contraction of the muscles of the extremities were observed a few minutes after the injection of serotonin, followed by coma and death within 2 to 40 hrs. A dose of 50 mg/kg of serotonin caused spasms and coma which gradually disappeared, after which the animals recovered. Doses below 40 mg/kg caused slight hyperemia of facial

Card 1/2

AID Nr. 996-6 2 June F.

PROPHYLACTIC EFFECT OF 5-METHOXYTRYPTAMINE ON RADIATION SICKNESS IN MONKEYS (USSR)

Krasnykh, I. G., P. G. Zherebchenko, L. F. Semenov, N. N. Suvorov, and K. A. Zeytunyan. Radiobiologiya, v. 3, no. 2, 1963, 259-261.

S/205/63/003/002/016/024

Radiation sickness was induced in rhesis monkeys by subjecting them to Yirradiation with 607 r at 81 r/min for 7.5 min. Survival of the animals for
30 days after exposure, severity of individual symptoms, and changes in
body weight, mean life span, and peripheral blood were used as indices to
evaluate the prophylactic effect of 5-methoxytryptamine. The monkeys were
given injections of syntomycin and levomycin every other day to prevent
dysentery. 5-Methoxytryptamine was administered intramuscularly in a
dose of 25 mg/kg 10 min before exposure, or per os in a dose of 250 mg/kg.
30 min before exposure. The control animals died within 6 to 17 days from
severe acute radiation sickness (mean life span, 9.2 days). Disturbances

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· AID Nr. 996-6 24 June

PROPHYLATIC EFFECT [Cont'd]

s/205/63/003/002/016/024

in the general condition of the control animals became evident by the third day. Towards the end their weight decreased 18 to 28% and the leucocyte count decreased to 3% of the initial level. Hemorrhages, ulcers, and necrosis of the oral mucosa were observed. Of the seven monkeys injected intramuscularly with 25 mg/kg of 5-methoxytryptamine, one survived 30 days; the mean life span of the other six was 17.3 days. Of the eight monkeys given 250 mg/kg of 5-methoxytryptamine per os, three survived and the mean life span of the rest was 14.0 days. Symptoms of radiation sickness in the two groups injected with 5-methoxytryptamine were much milder than in the control group. The highest rates of survival and increased life span were found in the group that received 250 mg/kg of the protector per os. The general condition of these animals was only slightly affected, their weight loss was only 10%, and they suffered less from hemorrhages than the other two groups. Pneumonia was observed in one out of five monkeys treated per os and in three out of six in the control group. 5-Methoxytryptamine proved to be most effective when administered per os.

Card 2/2

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officer of come mark-onglessive agrava on the express? ver in the extract brain. Radioble braits 4 as.6975cm/20 100.	
i. Institut eksperimentatinsy patsängs; I t rasel sam ossik.	

L 31368-65 EWG(j)/ENT(m)

ACCESSION NR: APLIOLIBILITY

s/0205/64/004/005/0756/0759

AUTHOR: Strelkov, R. B.; Samanov, L. F.

TITLE: Effects of some radioprotectors on animal brain oxygen levels

SOURCE: Radiobiologiya, v. 4, no. 5, 1964, 756-759

TOPIC TAGS: animal, mouse, radioprotector, amine, sulfur, brain tissue, oxygen voltage, oxygen level, polarography, adrenalin, cystamine, histamine, acetylcholine

ABSTRACT: In experiments on 640 white mice (18-22 g) the effects of two groups of radioprotectors (amine compounds and sulfur bearing preparations) were investigated in relation to oxygen tension of brain tissue, oxidation levels in nerve centers and at peripheral points, and the general state of the central nervous system. After initial oxygen tension levels of the brain were determined by a polarographic method for each animal without anesthesia, a hole was drilled in the skull and a platinum electrode was implanted in the brain tissue and an indifferent silver chloride electrode was affixed to the animal's back extremity. Optimal doses of the following

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ACCESSION NR: AP4046444

radioprotectors (aqueous solutions) were administered subcutaneously adrenalin, serotonin, metoxytryptamine, histamine, acetylcholine combined with amines, beta-mercaptoethylamine, cystamine, aminoethylisothiouron (AET), thiourea, and unithicl. Biopotential shifts were observed for 45-60 min following administration. In additional experiments radioprotector effects on the oxygen level of the spleen and liver were investigated and also the effects of anesthetics on brain oxygen levels. Results show that radioprotectors of different structure do not produce the same type of brain oxygen level changes. The sulfur bearing preparations AET, cystamine, beta-mercaptoethylimine and thiourea do not affect the brain tissue oxygen level. Most of the amine radioprotectors induce an increase of the brain tissue oxygen level and contribute to hypoxia development in the spleen and liver tissues. The exceptions are histamine and acetylcholine which do not increase the brain oxygen level and sometimes tend to reduce its level. Earlier findings on differences between amine and sulfur bearing radioprotectors were confirmed in the present study. On the basis of comparing brain exygen level changes and the antiradiation activity of a given preparation, it appears that radioprotective action can take place with an increased

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ACCESSION NR: APHOH6H	4		
somewhat reduced level. index of CNS physiologi	If brain oxygen level cal activity, then new or of a depressive of the contractive of the	erve centur shifts can be nature under the action of	
ASSOCIATION: Institut SSSR, Sukhumi (Experime		cologii i terapii AMN Aerapy Institute AMN SSR)	
SUBMITTED: 14Feb63	ENCL: 00	SUB CODE: IS P	
nr ref sov: 006	OTHER: 005		
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L 24044-66 EWT(m) RD ACC NR: AP6009325

SOURCE CODE: UR/0248/65/000/011/0050/0057

AUTHOR: Semenov, L. F.; Yakovleva, L. A.

B

ORG: Institute of Experimental Pathology and Therapy, AMN SSSR, Sukh mi (Institut eksperimental noy patologii i terapii AMN SSSR)

TITLE: Comparison of radiation sickness characteristics in various species of mam-mals, including primates

SOURCE: AMN SSSR. Vestnik, no. 11, 1965, 50-57

TOPIC TAGS: radiation sickness, gamma irradiation, x ray irradiation, radiation injury, leukopenia, leukopoiesis, experiment animal, radiation biologic effect

ABSTRACT: Data from the literature and the author's findings on acute radiation sickness in mice, rats, guinea pigs, rabbits, dogs, and monkeys are presented. In their experiments, the authors made use of the RUM-3 x-ray machine and a Co⁵⁰ gamma ray machine (70-110 rad/min). Data on the effects of total and localized irradiation (abdomen and head) in monkeys (1650-25000 rad) and the survival time (in hours) are given. The disruption of leukopoiesis mechanism, accompanying acute radiation sickness is described. Information on infectious diseases (gingivitis, pneumonia, enteritis and colitus) with which the various animals were affected (in addition to acute radiation sickness) is presented in tabular form. It is concluded that radiation sickness in

UDC: 617-001.28-092.9

Card 1/2

L 24044-66 ACC NR: AP6009325		0
humans most closely	resembles that in monkeys. Orig. art. has: 4 tables	
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Card 2/2dda		

KITH EXIY, V.I., SEMENOV, L.F.

Categoral amine content in the tissues of macaco monkeys during carty phases of whole-body , -irradiation. Radiobiologiia 5 no.4:494-500 165. (MIRA 18:9)

l. Ukrainskiy institut usovershenstvovaniya vrachey, Khar'kov i Institut eksperimental'noy patologii i terapii AMN SSSR, Sukhumi.

SEMENOV, L.F.; YAKOVLEVA, L.A.

Comparative characteristics of radiation sickness in different species of mammals including Primates. Vest. AMN SSSR 20 no. 11: 50-57 *65

1. Institut eksperimental noy patologii i terapii AMN SSSR, Sukhimi. Submitted July 13, 1965.

6(6) SOV/112-59-2-3914

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 2, p 246 (USSR)

AUTHOR: Semenov, L. G.

TITLE: Telecinema Systems (Sistemy telekino)

PERIODICAL: Tr. Televizion. fil.-labor., 1956, Nr 2, pp 38-49

ABSTRACT: TV devices with or without storage are used for scanning cinema pictures in TV practice. Among no-storage systems, the best is a flying-spot system that has a resolving power of over 1,000 lines; the number of gradations that can be transmitted is limited practically by picture tubes only. Among storage-type systems, the iconoscope and image orthicon have the widest use. Both have certain disadvantages as far as half-tone transmission and signal-noise ratio are concerned. The projection, in the telecinema system, differs from the conventional one in that the picture should be projected (in the one-field system; without blacking out; this is attained by pulse strobing, optical compensation, and optical or electronic picture splitting explained in the article.

V.F.A.

Card 1/1

SEMENOV, L.G., gornyy inzh.; BITYUKOV, L.Ye., gornyy inzh.

Loosening of the coal block with the water-infusion blasting system in the hydraulic mining of anthracite. Ugol' Ukr. 6 no.8:15-17 Ag '62. (MIRA 15:11)

SEMENOV, Leontiy Grigor'yevich; DAN'YE, V.N., rauchn. red.; SOROKINA, M.I., red.

[Manual for storage battery electricians] Elektromonter-akkumuliatorshchik. Moskva, Vysshaia shkola, 1964. 231 p.

(MIRA 17:6)

SUDMISHUKOV, B.V.; SEMENOV, L.I.

Increasing the power of sinker drills. Trudy Inst.gor.dela
Sib.otd.AN SSSR no.2:195-204 '59. (MIRA 13:5)
(Rock drills)

SEMENOI, Leonid I.

Geb. in Bugulma, Russland, 1878 19/6. Astronom der Sternwarte Pulkowo 1908-23. Leiter der Abteilung in Nikolajew der Pulkowoer Sternwarte 1923-26. Direktor der Sternwarte in Nikolajew seit 1926.

Source: Fortraetgallerie der Astronomischen Gesellschaft, Koenigliche Ungarische Universitaetsdruckerei, Budapest, 1931, Unclassified.

SEMENOY, L. I.

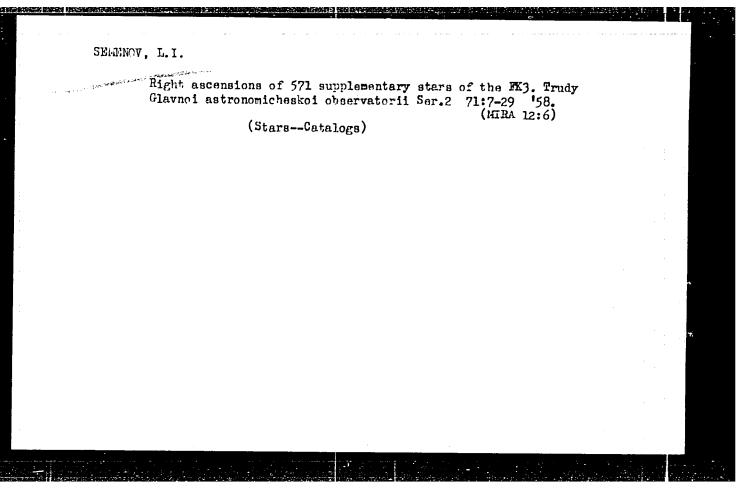
35167. Pryamye Voskhozhdeniya Solntsa, Merkuriya I Venry, NabloDennye V Nikolaeve V 1929-1935 GG. Trudy Glav. Astron. Observatorii V. Pulkove, Seriya Ii, T. LEIII, 1949, s. 117-26

SO: Letopis' Zhurnal'nykh Statey, Vol. 48, Moskva, 1949

SEMENOV, L. I.

35168. Pryamye Voskhozhdeniya 674 Zvezd Po Nablyudeniyam V Nikolaeve (1930.0). Trudy Glav. Astron. Observatorii V Pulkove, Seriyaii, T. IXIII, 1949, s. 7-115

SO: Letopis' Zhurnal'nykh Statey, Vol. 48, Moskva, 1949



Temeroy L. L.

(4)

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sov/19-59-11-169/277

AUTHORS:

Khokhlov, A.F., Antipov, Ye.F., Ol'man, Ye.V., Logunov, S.S., Semenov, L.I., Moskver, K.B., Chernov, Yu.A., Antonov, S.I., and Rumyantsev, S.I.

TITLE:

A Gyroscopic Device

PERIODICAL:

Byulleten' izobreteniy, 1959, Nr 11, pp 40-41 (USSR)

ABSTRACT:

Class 42c, 35₁₀. Nr 120343 (603431/26 of 5 July 1958). 1) A gyroscopic device for indicating the course of sea vessels and airplanes, with selective operation as a gyrocompass, a directional gyro, or a gyro-magnetic compass. The device includes a spherical gyro-motor, a follow-up gyro-sphere, and external universal joint with a correcting balance, servounits for automatic control and reading transmission, and a computer for compensating high-speed and ballistic deviations and carry-over velocities. To dampen the free oscillations of the gyroscope, the correcting balance is electrically coupled with the servodrive

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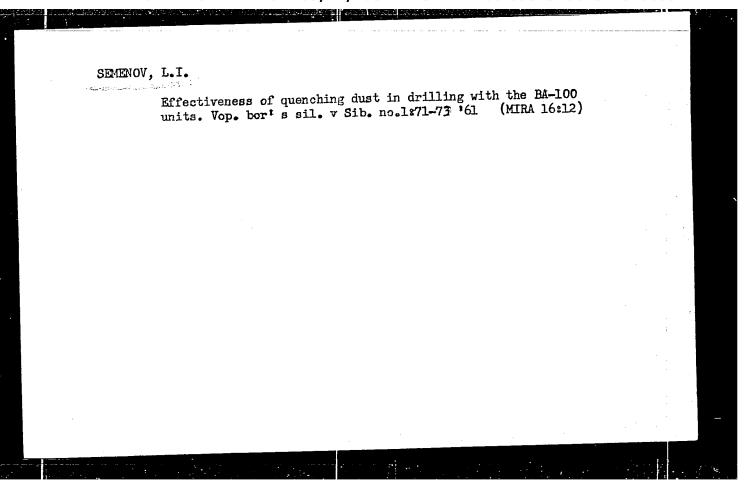
A Gyroscopic Device

of the vertical axle of the gyroscope. 2) To simplify the design of the device, the springs linking the spherical gyro-motor with the follow-up sphere are also used for transmitting centering efforts and moments to the gyroscope.

Card 2/2

STREL'TSOV, Ivan Vasil'yevich; SEMENOV, Leonid Ivanovich; FYLAYEVA, L.N., red.

[Practice in highway construction in Uzbekistan] Opyt stroitel'stva avtomobil'nykh dorog v Uzbekistane.
Tashkent, "Uzbekistan", 1965. 134 p. (MIRA 18:12)



SUKSOV, G.Y., thishot SEMEROV, L.I., inches GAUN, V.A., inche

New, highly afficient, MAR air drillae Gore chure no.98
47418 5 *64. (MRA 17:12)

1. Cathreloys otdeluniye AV SSSR, Novosibirek.

SEMENCY, L. K.

Hemp

Further improvements in quality and assortment of production: 4. In the hempindustry. Tekst. prom., No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1956, Uncl.

KOLESOV, D.A., inzh.; SEMENOV, L.N., inzh.; SHPAK, V.P., inzh.

Using collapsible paddings in ship launching from a longitudinal slipway. Sudostroenie 30 no.1:40-42 Ja '64. (MIRA 17:3)

KHUTIKOV, I.P., doktor tekhn.nauk; SEMEHOV, L.N., inzh.

Remote control of lifting cranes. Stroi.i dor.mashinostr.
4 no.8:23-26 Ag '59.
(MIRA 12:12)
(Cranes, derricks, etc.) (Remote control)

POLKOVNIKOV, V.S., kand.tekhn.nauk; SEMENOV, L.N., inzh.; BORISOV, Yu.M., kand.tekhn.nauk

Remote control of hoisting cranes (to be concluded). Vest.mash.
41 no.10:17-20 0 '61. (MIRA 14:10)
(Crances, derricks, etc.) (Electronic control)

POLKOVNIKOV, V.S., kand.tekhn.nauk, dotsent; SEMENOV, L.N., inzh.;
BORISOV, Yu.M., kand.tekhn.nauk, dotsent

Remote control of cranes. Vest.mash. 41 no.11:25-33 N '61.

(MIRA 14:11)

(Cranes, derricks, etc.)

(Remote control)

17.1419 (1089, 1159, 1133)

29335 \$/122/61/0**4**0/010/003/011 D221/D304

AUTHORS:

Polkovnikov, V.S., Candidate of Technical Sciences, Semenov, L.N., Engineer and Borisov, Yu.M., Candidate

or Technical Sciences

TITLE:

Remote control of hoisting cranes

PERIODICAL: Vestnik mashinostroyemiya, noa 10, 1961, 17 - 20

TEXT Remote control employs several generators of sonic frequencies, operated by coded switches or by a special control apparatus. Frequency modulation is prefereable due to smaller power requirements and lesser sensitivity to interference. The prototype was developed and made in the Laboratory of Hoisting and Transporting inchines of MVTU im. Bauman, and applied to a 10 ton crane. It is based on the portable transmitter O2P2(MCP-47) (O2R2(ZhR-4P)), which produce FM signals in the band of 36-46 Mc. The prototype uses carried requency of 42.75 Mc, power of transmitter is 0.1 watt, ensuring a reliable connection within 0.5-1 km. The antenna is formed by a 145 cm flexible rod. A detailed description of trans-

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Remote control of hoisting cranes

mitter is given in the makers' instructions (Footnote reference; Radiostantsiya tipa ZhR-4P. Kratkoye opisaniye i instruktsiya no ekspluatat&ii, remontu i nastroike. Sovet narodnogo khozyaystva BSSR, 1958). The sourte of sonic frequencies as made up of RC generators, due to their stable frequency characteristics as well as good wave form, simple design and operation. The one valve RC generater with a phase modulating circuit is illustrated in Fig. 4. Its amplification includes the positive feedback of modulating circuit consisting of R_1 , R_2 , R_3 , C_1 , C_2 and C_3 . The basic diagram of block subminiature valves, 21:15 (22hl6B) heated by 2.2 7, 14 ma, with an anode current of 1.5 ma at 60 v. Two sonic frequency channels are used. An emergency channel is used for no-voltage protection. Another shannel is used for switching on an audible signal. In the case of a crane with three mechanisms and a lifting magnet it is necessary to have to channels. Muiti-pulse binary code can be used to reduce the number of sonic frequencies required for transmitting signals to electric motors. The block has 6 generators. Those with two fixed frequencies feed the controls of motors and the Card 2/5

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Remote control of hoisting cranes

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electromagnet, whereas the generators with one frequency feed the emergency channel. The former have two resistance branches in the last loop of thase modulation. A buffer cascade (valve 751 (71)) is employed as load match for generators, and its output of ly is fed to the modulator of the transmitter. Connection of generators or resistances of phase modulating circuit is ensured by contactors KHI, KBI, ..., KA, push buttons or lever switches mounted on the control pnael. Electrical interlocking with emergency switch as well as for changes in rotation of crane motor is ensured by microswitches. The emergency signal can be fed when the control panel is in zero position. The controller produces signals of inadequate length during fast movements of handle. The prototype used telephone jacks for operating the controller, thus eliminating the complicated system of electrical and mechanical interlocks. Its drawback is that only visual observation allows the position of controller to be determined. Power supplies are provided by an alkaline battery, 2 H-4 (2ZhN-4) which is sufficient for 5 hours work. Anodes and grids are fed by crystal triodes, 32-B (PZ-V) forming a convector, with a bridge circuit with four diodes, - 124 (DG-Ts24)

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Remote control of hoisting cranes

and a rectifier (half-wave) diode (2B (D2V). The end of the article is to follow in the next issue. There are 7 figures.

Fig. 4. Resistance-capacitance generator.

Legend: 1 - Cout.

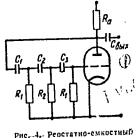


Рис.-4.- Реостатно-емкостный генератор.

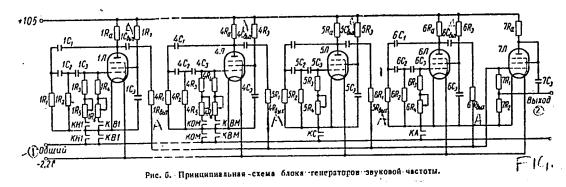
Card 4/5

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Temote control of hoisting crances

Fig. 5. Basic diagram of block of sonic frequency generators.

Legend: 1 - Common; 2 - output; subscripts A - output.



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s/135/61/000/012/006/008 A006/A101

AUTHORS:

Volkov, K. N., Safonov, A. I., Semenov, L. N., Engineers

TITLE:

On the problem of raising the mechanization level of welding opera-

tions in shipbuilding

PERIODICAL: Svarochnoye proizvodstvo, no. 12, 1961, 22-24

Since 1955 the rate of increase of mechanized welding operations in shipbuilding has dropped from 7 - 8% in 1948 - 1953 to 0.5 - 1.5% per year. To predetermine an increase of mechanization, it has become imperative to analyze the distribution of weld joints depending on their length, the spatial location of the seam during the welding process and the welding spot. The authors tabulated these parameters for ship hulls and bottoms. The data compiled are characteristic of distributing the extent of welding operations on the hull and the degree of their mechanization. They also make it possible to indicate the basic trends of further mechanization in welding operations. On the basis of these data the following conclusions are drawn: It is not possible to assure the prescribed level of mechanization by passing over to submerged arc welding of all Joints to be welded in the lower position, i.e., 80% of the total amount of

Card 1/3

s/135/61/000/012/006/008 A006/A101

On the problem of raising the mechanization ...

welding operations on the hull. The use of submerged arc welding for joints produced in the vertical and overhead position, is not considered to be expedient in shipbuilding, since up to 1 m long T joints and over 3 m butt joints are the standard types of welds in vertical seams. Up to 1 m long T joints and over 3 m long butt welds are the standard types for overhead seams. A further mechanization of welding operations should be achieved by introducing methods which assure the efficient welding of short joints in any spatial position. To attain the prescribed 85% mechanization of welding processes, in respect to labor consumption, not less than 92% of all welding operations of hull structures must be performed by mechanized means. Mechanization should be brought about both at the shops and at the dockyard. The existing technical means for welding in CO2 will raise the extent of mechanization at all stages of shipbuilding. There are 2 tables and 4 figures.

Card 2/3

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001547820003-1

8/135/61/000/012/006/008 On the problem of raising the mechanization ... A006/A101 Table 2: Work place Type position of joint joint A P A P A P 1,12 2,06 0,30 0,00 3,28 0,12 31,00 1,47 47,6 0,0 Manufacture of Nya siretesieses im sections 0 2,0 0,10 0,33 0,13 0,15 13,50 0,6 15,20 3,6 0,17 0,33 0,68 0,12 0,23 2,57 0,39 2,46 2,37 Charles Dockyard He cresses C. MIX 0.03 0,29 0.00 0.11 0.00 0.01 Manufacture of 5,96 G . 0,27 G 0,f Nections 0,13 ----Vertical September 1,12 6 9,66 0 0,3 Dockyard Ha cresses 0,91 0 0,51 0 0,25 0,42 0 0,08 C. PULL _ 2,05 0 0,20 Dockyard He cresses CIERRE 1,28 0 0,24 0 Crittile Horizontal partitions bestall 0,10 -0,44 8 Cruzolale 0.10 8 0,95 6 0,25 0 0,14 6 Tanyhama 1,82 (0,05 0,00 1,15 2,30 0,32 30,0 1,4 43,9 Manufacture of He servement of sections Crassian 9 3,25 0,1 0,46 0,13 0,15 12,36 0,6 18,59 4,46 Tudposer 3,11 3,16 0,00 1.2 0,12 0,71 2,34 2,56 2,65 7,63 Dockyard Ha crasess Crassian 3,03 1,65 0,65 0,82 0,66 0,82 2,34 4,33 2,36 7,56 2,05 |18,16 | 1,01 | 3,65 | 2,59 | 1,6 | 61,54 | 9,55 | 67,5 | 22,5 * 18181 Bel' 301b Card 3/3

SEMENOV, L.N.; YAROSHENKO, A,P.

Simplified design of an apparatus for corrosion testing by the alternating immersion of samples coated with paint materials.

Lakokras.mat.i ikh prim. no.1:73-74 '62. (MIRA 15:4)

(Materials--Corrosion) (Protective coatings)

- SEMENOV, L. P. 1.
- USSR (600) 2.
- Antiquities Assy Valley
- Archaeological explorations in the Assy valley. Arat.soob.IIMK, no. 46, 1952.

Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

SEMENOV, L. P. Cand Ped Sci -- (diss) "Study of the technique and methods of of "operate [broad?] jumps." |
practizing faults." Mos, 1956. 18 pp 20 cm. (State Central Order of Lenin
Inst of Physical Culture im I.V. Stalin), 100 copies

(KL, 7-57, 110)

86

SEMENOV, L.P., aspirant

Convocaine benzoate for infiltration and conduction anesthesia. Veterinaria 37 no.10:54-55 0 '60. (MIRA 15:4)

1. Saratovskiy zooveterinarnyy institut.
(Gonvolamine) (Anesthetics)

Maintenance of structures built in permafrost areas. Prom.stroi.
37 no.3:46-49 Hr '59. (MIRA 12:4)

(Building-Cold weather conditions)

Thermotechnical calculations for pipelines. Mat. k osn. uch. o merz.

zon. zem. kory no.6:64-68 '60. (MIRA 13:10)

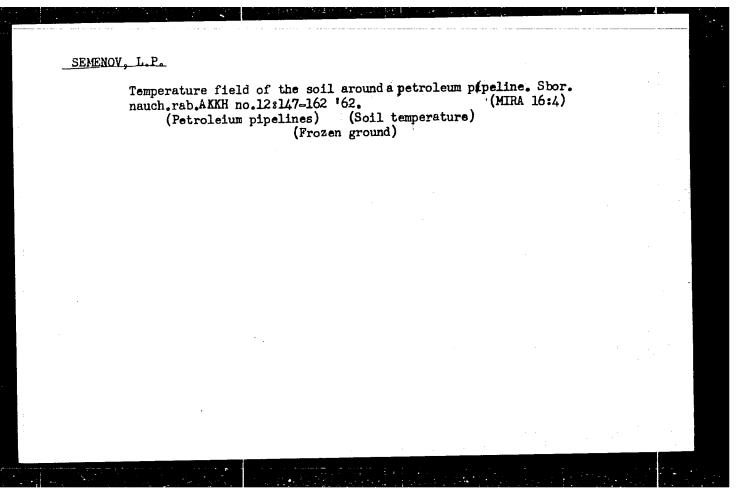
(Pipelines) (Frozen ground)

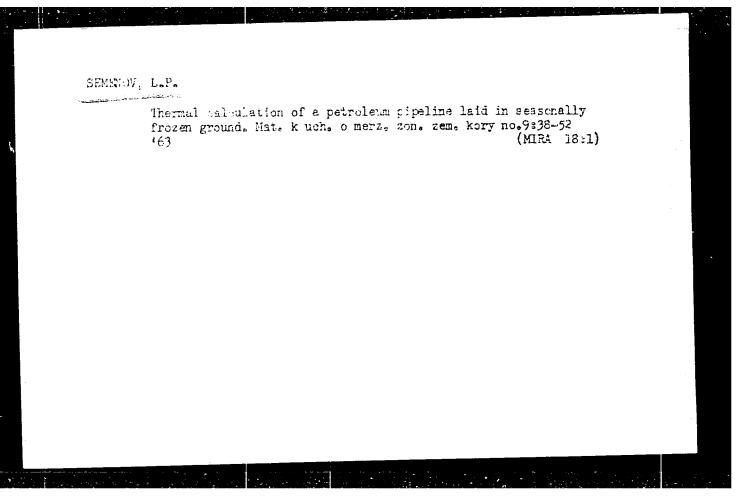
SEMENOV, L.P.; FEL'DMAN, G.M.; SEUR, Yu.L.

Thermal regime of petroleum pipelines. Mat. k osn. uch. o
merz. zon. zem. kory no.7:119-131 '61.

("etroleum--Pipelines)

(Frozen ground)





23737

15 2220 3009, 3309

S/089/61/010/006/002/011 B136/B201

21.6100

AUTHORS:

Agranovich, V. M., Semenov, L. P.

TITLE: Theory of irradiation effect upon some properties of graphite

PERIODICAL: Atomnaya energiya, v. 10, no. 6, 1961, 572 - 576

TEXT: Some of the properties of graphite are changed under irradiation: it is dilated and its thermal conductivity is reduced. An accumulation of Wigner energy, which is liberated on heating, also takes place. These problems are discussed theoretically here. Under irradiation, lattice atoms penetrate between weakly bound lattice planes, whereby the distance between them grows larger and the lattice constant along the c-axis rises. Such interstitial positions are particularly stable if situated directly below (or above) an atom of an (--) plane, and above (or below) the center of the lattice hexagon of the second (--) plane. (Fig.1). This model is made the starting point of the investigation, ion defects being neglected. Binding energy and compressibility of an ideal graphite single crystal are calculated first. The spherically symmetrical Lenard-Johns potential for the interaction between two atoms in different planes is used in this Card 1/5

23737

Theory of irradiation ...

S/089/61/010/006/002/011 B136/B201

connection. Theoretical and experimental values for the binding energy are $E = -243 \text{ erg/cm}^2$ and $E = -2.60 \text{ erg/cm}^2$, and for compressibility $\approx 2.59 \cdot 10^{-12}$ and $\approx 2.97 \cdot 10^{-12} \text{cm}^2/\text{dyne}$. This good agreement justifies the application of the method to such a crystal as contains a given number of Frenkel' defects per unit volume. Equations

$$3y\left(\frac{\mathcal{P}_{1}^{3}}{r_{1}^{3}}-r_{2}^{-3}\right)+\frac{\mathcal{P}_{1}^{3}}{r_{1}^{3}}-\frac{1}{r_{1}^{2}}=0;$$

$$\frac{(a+y_{c})}{r_{1}}\left(\frac{\mathcal{P}_{1}^{3}}{r_{1}^{1}}-\frac{1}{r_{1}^{7}}\right)+\left(\frac{\mathcal{P}_{2}^{3}}{r_{2}^{13}}-\frac{1}{r_{2}^{3}}\right)\frac{y}{r_{2}}+$$

$$+\frac{2y_{c}}{r_{6}}\left(\frac{\mathcal{P}_{1}^{3}}{r_{3}^{13}}-\frac{1}{r_{3}^{7}}\right)=0;$$

$$\left|\frac{(1+x)}{r_{1}}\left(\frac{\mathcal{P}_{1}^{3}}{r_{1}^{13}}-\frac{1}{r_{1}^{7}}\right)+\frac{(1+x)}{r_{2}}\left(\frac{\mathcal{P}_{2}^{3}}{r_{2}^{13}}-\frac{1}{r_{2}^{7}}\right)-\right|$$

$$-\frac{(1-2x)}{r_{3}}\left(\frac{\mathcal{P}_{2}^{3}}{r_{3}^{13}}-r_{3}^{-7}\right)=0;$$

$$r_{1}^{2}=(1+x)^{2}+(l_{0}+y_{c})^{2};$$

$$r_{2}^{2}=y^{2}+(1+x)^{2};$$

$$r_{2}^{3}=(0,5-x)^{2}+0,75+y_{c}^{3};$$

$$r_{6}^{2}=(l_{0}+y+y_{c})^{2}.$$

$$(10)$$

Card 2/5

Theory of irradiation ...

$$\frac{\frac{(1+x')}{r_{7}}\left(-\frac{1}{r_{7}^{2}}+\frac{\mathcal{P}_{1}^{2}}{r_{1}^{2}}\right)+}{+\frac{(1-x')}{r_{4}}\left(\frac{1}{r_{4}^{2}}-\frac{\mathcal{P}_{2}^{2}}{r_{1}^{2}}\right)+\frac{\mathcal{P}_{2}^{2}}{r_{1}^{2}}-r_{5}^{-7}=0;}$$

$$\frac{\frac{(l_{0}+y')}{r_{7}}\left(\frac{\mathcal{P}_{1}^{2}}{r_{1}^{2}}-r_{7}^{-7}\right)-}{-\frac{y'}{r_{4}}\left(\frac{1}{r_{4}^{2}}-\frac{\mathcal{P}_{2}^{2}}{r_{1}^{2}}\right)=0;}$$

$$r_{4}^{2}=(1-x')^{2}+(y')^{2}; r_{5}^{2}=(1+x')^{2};$$

$$r_{7}^{2}=(l_{0}+y')^{2}+(1+x')^{2}.$$

$$(11)$$

for the equilibrium state of atoms in the \propto -and /-planes are numerically solved (Table 1), and thereupon the potential of the interaction energy E_1 of interstitial atoms with the atoms of both planes, and that of the planes among one another (E_2) are determined. To find the equilibrium lattice constant, it is necessary to calculate the minimum of $(E_1 + /E_2)$, $(E_1 + /E_2)$.

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Theory of irradiation ...

S/089/61/010/006/002/011 B136/B201

i. e., the solution of equation $\frac{d}{dl_0}$ $(\Delta E_1 + \Delta E_2) = 0$. The numerical

values of the solution are given in Table 2. The Wigner energy is finally determined: $W=E_1+E_2+E_3$, where E_3 is the margin of energy in the crystal. Table 3 gives the Wigner energy for some defect concentrations. As an increase of defects with irradiation is unknown, a direct comparison with experimental values is not possible, although it may be performed via the determination of the Wigner energy. The agreement appears to be good up to the region of high defect concentrations, where the neglect of defect interaction leads to deviations. There are 2 figures, 3 tables, and 5 references: 2 Soviet-bloc and 3 non-Soviet-bloc. The reference to the English-language publication reads as follows: B. Bacon, G. Warren, Acta crystallogr., 9, no. 12, 1029, (1956).

SUBMITTED: July 26, 1960

Card 4/5

Theory of irradiation							23737 s/089/61/010/006/002/011							
							d	c., A	7a	c. A	r _d	ca. A	Tab.2	•
l.	x	7 19 6	BLE VC	/ _{x'}	ע יע		0-3	6,71 6,77	5.10 ⁻³ 6,5.10 ⁻³	6,88 6,91	1,5.10-2	7,00		
,19 ,20	0,0185 0,0150	0,3495 0,3487	0,2575 0,2500	0,0527 0,0519	0,4400 0,4360 0,4320	3.	10 ⁻³ 10 ⁻³ 10 ⁻³	6,82 6,85	8.10 ⁻³ 9.10 ⁻³	6,94 6,95	3·10 ⁻² 5·10 ⁻²	7,11	·	_ /
,19 ,20 ,21 ,22 1,23	0,0123 0,0100 0,0078 0,0057		0,2440 0,2390 0,2340 0,2300	0,0498 0,0488 0,0478	0,4280 0,4232 0,4190	i								.^
1,25 1,26 1,27	0,0040 0,0025 0,0012	0,3425 0,3400 0,3370	0,2255 0,2220 0,2180	0,0456	0,4150 0,4108 0,4065 0,4020	Γ	T _d	ΔW, KGA/CM ³	r _d	AIV.	r _d	AW.	Tel. 3	
1,28 1,29 1,30 1,31 1,32 1,34	0,0000 -0,0013 -0,0025 -0,0036 -0,0048 -0,0067	0,3317 0,3300 0,3285 0,3266 0,3228	0,2040 0,2005 0,1940	0,0423 0,0413 0,0404 0,0397 0,0386	0,3980 0,3940 0,3900 0,3865 0,3800	1	10 ⁻³ 2·10 ⁻³ 3·10 ⁻³	34,6 69,0 103,0 140,0	5·10 ⁻³ 6,5·10 ⁻³ 8·10 ⁻³ 9·10 ⁻³	169,8 210,0 268,8	1,5·10 2,0·10 3,0·10	983,2	2	
1,36 1,38 1,40 1,42 1,44 1,46	-0,0086 -0,0102 -0,0115 -0,0128 -0,0139 -0,0150	0,3185 0,3158 0,3140 0,3120 0,3100	0,1803 0,1740 0,1680 0,1620	0,0358 0,0343 0,0328 0,0314	2 0,3735 8 0,3660 3 0,3580 8 0,3515 4 0,3445 0 0,3375	L	4-10-3	140,0			1	<u> </u>	1	
	rd 5/5		<u>·</u>	<u>, •</u>									•	

24,6110

S/181/62/004/003/032/045 B108/B104

AUTHOR:

Semenov, L. P.

TITLE:

Spectrum of graphite lattice vibrations

PERIODICAL: Fizika tverdogo tela, v. 4, no. 3, 1962, 780-789

Mashhevich. Zhett, 32, 520, 1957; K. B. Tolpygo. FTT, $\underline{3}$, 943, 1960) the author studied the spectrum of lattice vibrations of graphite. Expressions are derived for the frequencies of the acoustic and optical long-wave vibrations. The vibration spectrum of graphite consists of fourteen branches beyond the point n = n: three acoustic, nine optical, and two

light branches. When calculations are made generally with consideration of the polarizability of the electron shells and retardation of interaction, two additional vibrational branches will appear, and the mechanical, optical, and light vibrations will be mixed into one system of two light and four optical vibrations with limiting frequencies $\frac{1}{100} \frac{2}{3.4}$. The

retardation of interaction has no effect on the acoustic vibrations. Combination scattering with two lines in the first-order spectrum is Card 1/2

Spectrum of graphite lattice vibrations 3/181/62/004/003/032/045 3108/B104

supposed to take place in graphite. The point $\bigcap_{0=3,4}^{2+1}$ is a point of light absorption. Absorption is a first-order effect. The theory contains the parameters A_1 , A_2 , A_3 , K_4 , K_2 , K_3 , a_0 , k, s_1 , s_2 , s_3 , s_4 . The parameters s_1 , s_2 , s_3 , s_4 can be computed by using the Lennard-Jones potential. The other parameters can be computed immediately if the functions $\psi_{p_0,j}^2(\vec{r})$ (wave functions of the isolated carbon atom in the state V

j) are known. K. B. Tolpygo is thanked for discussions. There are 1 figure and 6 references: 3 Soviet and 3 non-Soviet. The three references to English-language publications read as follows: C. F. Newell. J. Chem. Phys., 24, 1049, 1956 and 27, 240, 1957; Yoshimori. J. Phys. Soc. Japan, 11, 352, 1956.

SUBMITTED: September 18, 1961 (initially) December 2, 1961 (after revision)

Card 2/2

SEMENUV, L.P.

USSR/Pharmacology. Pharmacognosy. Toxicology - Local Anaesthetics. T-4

: Referat Zhur - Biologiya, No 16, 1957, 71699 Abs Jour

Author

: Semenov, L.P.

Inst Title : On the Toxicity and Anaesthetic Properties of Convocaine

Benzoate.

Orig Pub

: Tr. Saratovsk. Zootechn.-Vet. In-ta, 1956, 6, 189-191

Abstract

: Tests for determination of convocaine (I) toxicity were done on dogs and horses. I was administered to dogs in 2-18 mg/kg doses and to horses 1-4 mg/kg. It was established that 3 mg/kg of I was the limiting dose for dogs and horses; 18 mg/kg was lethal. For operating on animals under infiltration anaesthesia the author recommends I in 1:500 and 1:1000 cilution with a total quantity of

I in solution of no more than 4 mg/kg.

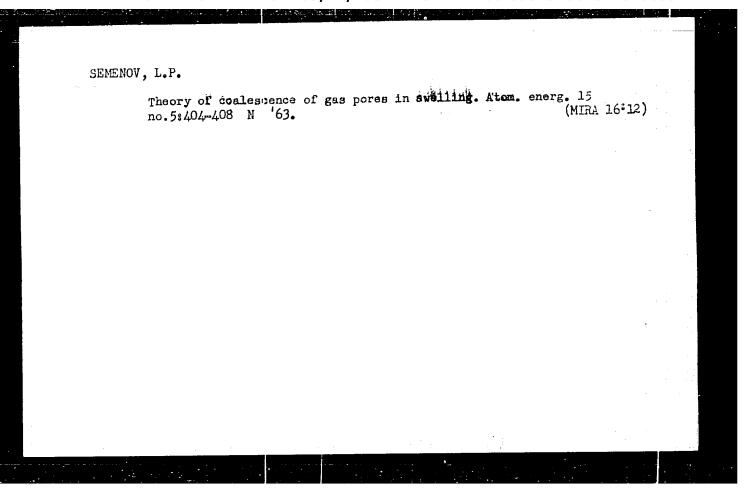
Card 1/1

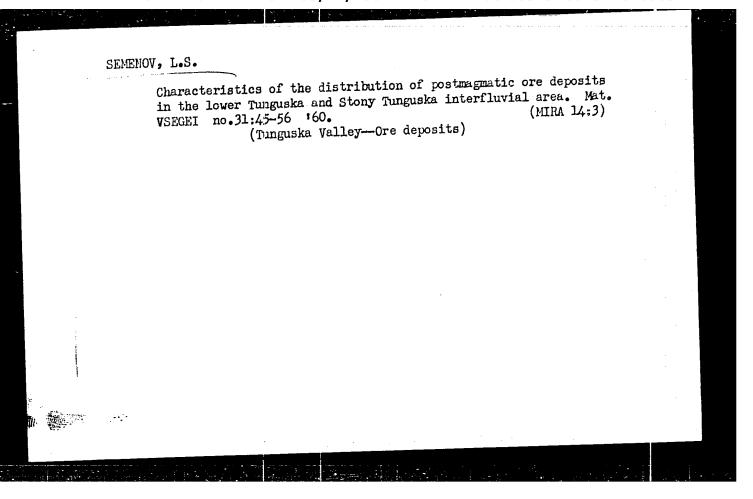
- 32 -

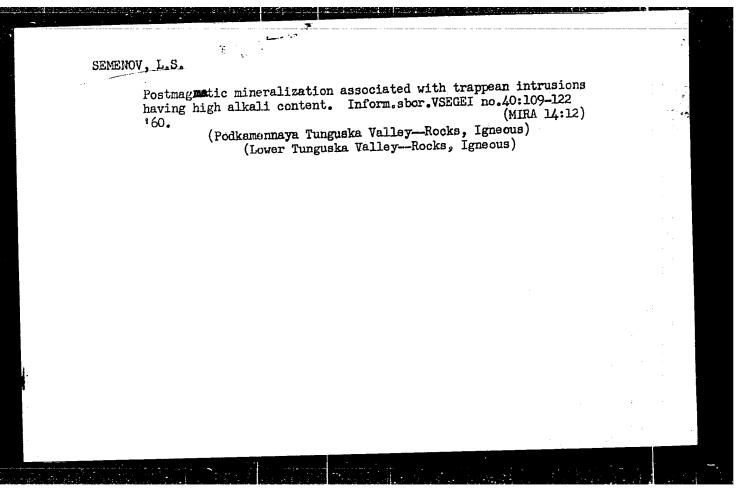
AGRANOVICH, V.M.; MIKHLIN, E.Ya.; SEMENOV, L.P.

Kinetics of the swelling of fissionable materials daused by the separation of the gaseous phase from a supersaturated solid solution. Atom. energ. 15 no.5:393-403 N '63.

(MIRA 16:12)







TSIN, M.R., inzh.; ZATULOVSKIY, S.S., inzh.; DIDYK, B.S., inzh.; KOZENKO, A.V., inzh.; SHIYAN, V.G., inzh.; SEMENOV, L.S., inzh.

Casting pressure pipe of cast iron with spheroidal graphite.
Met.i gornorud.prom. no.5:37-41 S-0 162. (MIRA 16:1)

1. Institut liteynogo proizvodstva AN UkrSSR (for TSin, Zatulovskiy, Didyk, Kozenko). 2. Ukrainskiy nauchno-issledova-tel'skiy trubnyy institut (for Shiyan, Semenov).

(Pipe, Cast iron)

```
Degree of locking as the indicator of the airtightness of the seaming. Kons. i ov. prom. 18 no.8:26-28 Ag '63. (MIRA 16:8)

1. Konservnyy kombinat v Krymske (for Semenov). 2. Krasnodarskiy nauchno-issledovatel'skiy institut pishchevoy promyshlennosti (for Yurchenko, Koloney).

(Tin cans—Testing)

(Sealing (Technology))
```

SEMENOV, L.S.; VARFOLOMEYEV, V.G.; YURCHENKO, A.L.

Manufacture of "SKO" covers from lacquer-coated aluminum. Kons. i ov. prom. 18 no.11:28-30 N '63. (MIRA 16:12)

- 1. Konservnyy kombinat v Krymske (for Semenov, Varfolomeyev).
 2. Krasnodarskiy nauchno-issledovatel'skiy institut pishchevoy promyshlennosti (for Yurchenko).

AUTHORS:

Chernyshev, Ye. A., Dolgaya, M. Ye., 79-28-3-10/61

Yegorov, Yu. P., Semenov, L. V., Petrov, A. D.

TITLE:

The Silicon Alkylation of Aromatic Compounds With

Dichlorc-Alkylsilane-Chlorides

(Kremnealkilirovaniye aromaticheskikh soyedineniy

dikhloralkilsilankhloridami)

PERIODICAL:

Zhurnal Ohshchey Khimii, 1958, Vol. 28, Nr 3, pp. 613-616

(USSR)

ABSTRACT:

Based on earlier investigations of the same authors, in

which the silicon alkylation of aromatic compounds was

carried out with chloroalkyltrichlorosilanes and

chloroalkyldichlorosilanes in the presence of AlCl₃ or metallic aluminum, they investigated the same alkylation with benzene, toluens and chlorobenzene together with dichloroalkylsilanechlorides. These reactions did not take place as simply as the above mentioned, the yields also being small (3-48 % compared with 30-80 %); this most probably because of the intensive formation of resin. Besides the character

Card 1/3

of the final products of alkylation varied according to the

The Silicon Alkylation of Aromatic Compounds With Dichloso- 79-28 3-10/61 Alkylsilane-Chlorides

nature of the two components (table 1). The fact is of interest that with $\alpha, \alpha_-, \beta, \beta_-$ and α, β -dichleroethyltrichlerosilanes chlorobenzene reacts mainly with the two chlorine atoms of the dichlcroalkyltrichlorosilane, giving three times higher yields than benzene. Also toluene reacts with greater yields, however, only with one chlorine atom, the other being substituted by a hydrogen atom. It is known that toluene rather easily gives its electrons to a binding with hydrogen. In order to investigate the structure of the obtained compounds their ultraviolet absorption spectra were taken. It was shown that in the silicon alkylation of benzene; toluene and chlorobenzene with dichlcroethyltrichlorosilanes one chlorine atom in the dichloroethyl radical is substituted by hydrogen. With benzene and chlorobenzene this reaction does not occur as main reaction, which, however, is entirely the case with toluene. In the silicon alkylation by means of dichloromethylsilanechlorides no reduction reactions are observed. Ultraviolet absorption spectra were taken for a number of synthetized compounds

Card 2/3

The Silicon Alkylation of Aromatic Compounds With Dichlorc- 79-28-3-10/61 Alkylsilane-Chlorides

after their methylation; this made possible to specify

their structure more exactly.

There are 2 figures, 2 tables, and 6 references

which are Soviet

ASSOCIATION:

Institut organicheskoy khimii Akademii nauk SSSR

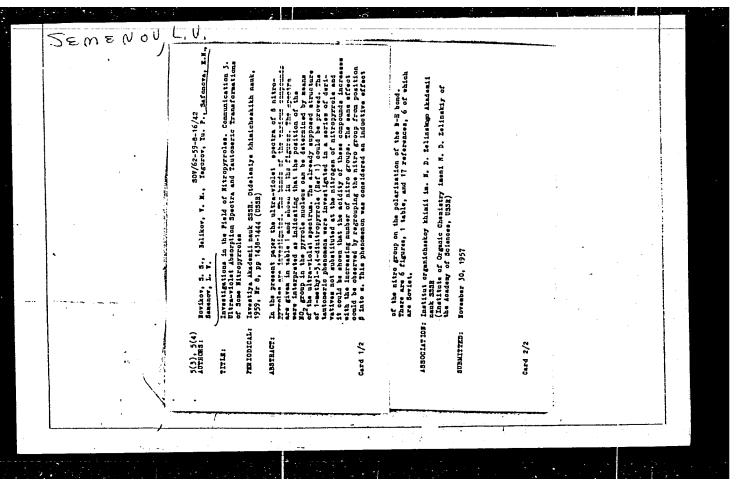
(Institute for Organic Chemistry, AS USSR)

SUBMITTED:

March 11, 1957

Card 3/3

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820003-1



SKORODUMOVA, I.P.; SEMENOV.

"Soviet Tuva." P.A. Shakhunova, B.N. Likhanov. Reviewed by I.P. Skorodumov, L.V. Semenov. Geog.v shkole 19 no.5:75 5-0 '56. (Tuva Autonomous Province) (Shakhunova, P.A.) (Likhanov, B.N.)

AUTHORS: Semenov, L.V. (Cand. Econ. Sc.) and Shakhova, O.V.

TITLE: Coke from brown coal, its production and uses. (Koks iz burogo uglya, yego proizvodstvo i primenenie). 68-5-14/14

PERIODICAL: "Koks i Khimiya" (Coke and Chemistry), 1957, No.5, pp.62-64 (U.S.S.R.)

ABSTRACT: A review of literature on the subject of the production and utilisation of coke from brown coal is given.

There are 7 references, including one Slavic.

ASSOCIATION: Council of the Academy of Science of the USSR for Studies of Productive Resources. (Sovet po izucheniyu proizvoditel nykh sil AN SSSR).

AVAILABLE:

Card 1/1

SEMENOV, L.V., kandidat ekonomicheskikh nauk. Scientific treatment of complex regional problems. (Coordination conference of the boards for study of productivity). (MIRA 10:7) AN SSSR 27 no.6:109-111 Je '57.

(Russia--Economic policy)

CIA-RDP86-00513R001547820003-1 "APPROVED FOR RELEASE: 03/14/2001

SKORODUMOVA, Irina Petrovna; SEMENOV, Lev Vladimirovich; DOBRONRAVOVA, K.O., red.; VILENSKAYA, E.N., tekhn.red.; KISELEVA, Z.A., red.kart

[Krasnoyarsk Territory; sketches of its natural resources and their use] Krasnoiarskii krai; ocherki o prirodnykh bogatstvakh i ikh ispol'zovanii. Moskva, Gos.izd-vo geogr. lit-ry, 1958. (MIRA 12:1) 69 p. (Krasnoyarsk Territory -- Economic conditions)

SOV/26-58-1-32/36

AUTHORS:

Kurochkin, G.D., Candidate of Geologo-Mineralogical Sciences;

Semenov, L.V., Candidate of Economic Sciences (Moscow)

TITLE:

A Monograph on a Vast and Rich Province (Monografiya ob obshirnom i bogatom kraye) M.I. Pomus: West Siberia. An Economico-Geographical Characteristic. State Publishing House of Geographical Literature 1956, 643 pp (M.I. Pomus: Zapadnaya Sibir'. Ekonomiko-geograficheskaya kharakteristika. Gosudarstven-

noye izdatel'stvo geograficheskoy literatury 1956, 643 str.)

PERIODICAL:

Priroda, 1958, Nr 1, pp 123-124 (USSR)

ABSTRACT:

This is a review of the above mentioned book.

Card 1/1

68-68-6-3/21

AUTHOR: Semenov, L.V., Candidate of Economic Sciences

TITLE: Tuva Coals as the Basis of the Coal-tar Chemical

Industry in the East (Tuvinskiye ugli kak baza koksokhimicheskoy

promyshlennosti vostoka)

PERIODICAL: Koks i Khimiya, 1958, Nr 6, pp 10-11 (USSR)

ABSTRACT: At present coals of the type K (coking) and Zh (fat) constitute about 70% of the coal blends used in the Eastern Coke Oven Works. The main source of supply of these coals is from the Kuznetsk Basin where their availability is limited. Therefore coal deposits in the Tuvinskaya avtooblast, discovered in the post war years, are of particular importance. A brief outline of the coal measures discovered in the district is given.

Laboratory and pilot plant coking of nome of the coals showed that a good coke can be produced from these coals and that with a 20% leaning addition a high quality metallurgical come can be obtained. The characteristic feature of the cools is their low sulphur (about 0.5%) and low phosphorous (0.004-0.045%) content. No details

are given.

ASSOCIATION: SOPS

1. Chemical industry 2. Coal tar--Manufacture

3. Coal--Appli-

Card 1/1 cation 4. Coal--Sources

SEMENOV, Lev Vladimirovich; PANTELEYEV, I.I., red.; SAMRINA, A.A., tekhn.red.

[Coal resources of Khakassia and prospects for their utilization]
Ugol'nye resursy Khakasii i perspektivy ikh ispol'zovaniia.
Abakan, Khakasskoe knizhnoe izd-vo, 1959. 71 p. (MIRA 13:6)
(Khakass Autonomous Province--Coal)

POPOV, P.A.; SEMENOV, L.V.

"Gases as a powerful source of energy and of chemical raw materials"
by P.A. Borisov, A.L. Rabkina. Reviewed by V.M. Popov, L.V. Semenov.
Gaz. prom. 4 no.12:51-52 D '59.

(Gas, Matural)
(Borisov, P.A.)

(Borisov, P.A.)

SEMENOV, L.V., kand.ekon.nauk

Prospects and economic effectiveness of the further development of the Soviet peat industry. Torf.prom. 36 no.4:16-19 '59. (MIRA 12:9)

1. Institut goryuchikh iskopayemykh im. G.M.Krzhizhanovskogo AN SSSR.

(Peat industry)

s/030/60/000/05/44/056 B015/B008

AUTHORS:

Popov, V. M., Candidate of Technical Sciences, Semenov, L. V., Candidate of Economic Sciences

TITLE:

The Utilization of Fuel Gases

PERIODICAL: Vestnik Akademii nauk SSSR, 1960, No. 5, pp. 110-112

TEXT: An All-Union Conference was held in Moscow from February 23 to 25, which was convened by the Nauchnyy sovet po probleme "Goryuchiye gazy" (Scientific Council for the Problem "Fuel Gases") and dealt with the coordination of the scientific activities for the utilization of fuel gases in the national economy. N. V. Lavrov, Institut goryuchikh iskopayemykh Akademii nauk SSSR (Institute of Mineral Fuels of the Academy of Sciences USSR) elaborated a perspective scheme of the oxidizing pyrolysis of gaseous paraffin hydrocarbons in unsaturated hydrocarbons. V. F. Kopytov, Institut ispol'zovaniya gaza v kommunal'nom khozyaystve i promyshlennosti Akademii nauk Ukrainskoy SSR (Institute of Utilization of Gas in the Municipal Economy and Industry of the Academy of Sciences of the Ukrainskaya SSR) pointed out the importance of securing a suitable speed and direction of

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The Utilization of Fuel Gases

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the furnace flame. A. S. Predvoditelev reported on the theory of the ignition of fuel gas mixtures and Ts. A. Bakhshiyan on tubular furnaces with radiating walls and their heat calculation. The insufficient contact of the scientific research institutes with the sovnarkhoz and the insignificant practical utilization of the gas and the new apparatus in industry are underlined next. The Conference considered it necessary to continue the research for the elaboration of the theoretical bases of the combustion processes. It was decided to speed up scientific research activities for the setting up of rational technological schemes for the supply of gas for agriculture and households. Scientific research in the field of the technical-economic efficacy of the utilization of gas in the national economy is to be increased. The Conference requested the Scientific Council in connection with the problem "Fuel Gases" to work out measures towards speeding up the utilization of the research results.

Card 2/2

SEMENOV, L.V.

Electrification of entry signal lights. Avtom. telem. i sviaz' 4 no.9:36-37 S '60. (MIRA 13:9)

l. Zamestitel' nachal'nika Stavropol'skoy distantsii signalizatsii i svyazi Severo-Kavkazskoy dorogi.

(Railroads--Signaling)

POF	Use of natural gas in the cement industry. Gaz.prom. 5 no.8:50-51							
	Ag 160.	atural)	(Cement: i		-	(MIRA 13:10)		

SEMENOV, L.V.

Problems of labor productivity in the coal mining industry ("Potentials for the increase of labor productivity in the coal mining industry" by A.S.Dovba. Reviewed by L.V.Semenov.

Sots.trud 5 no.8:150-153 Ag '60. (MIRA 13:11)

(Coal mines and mining-Labor productivity)

(Dovba, A.S.)

SEMENOV, L.V., starshiy nauchnyy sotrudnik; DAVYDOV, V.P., mladshiy nauchnyy sotrudnik

More about the order of planning and expenditure accounting in coal mines. Ugol' 35 no. 4:57-58 Ap '60. (MIRA 14:4)

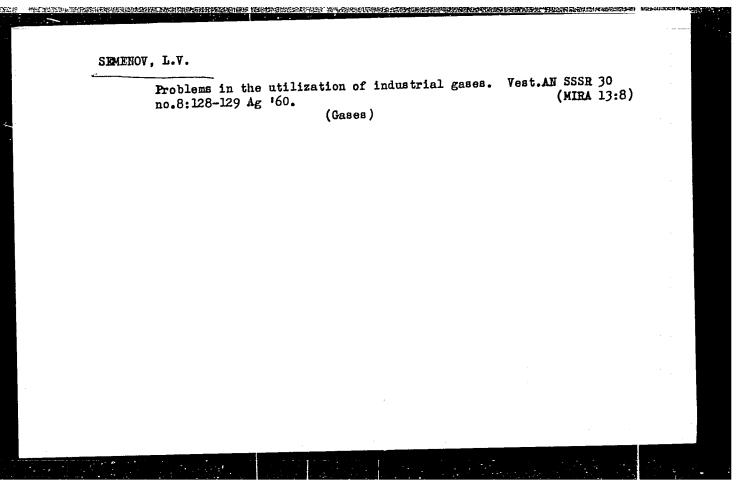
1. Institut goryuchikh iskopayemykh AN SSSR. (Coal mines and mining-Accounting)

POPOV. V.M., kand.tekhn.nauk; SEMENOV, L.V., kand.ekon.nauk

Use of combustible gases. Vest.AN SSSR 30 no.5:110-112

Hy '60.

(Gas as fuel)



SEMENOV, L.V.: POPOV, V.M.

Efficient combustion of natural gas. Vest.AN SSSR 30 no.9:
121-122 S '60.

(Gas, Natural)

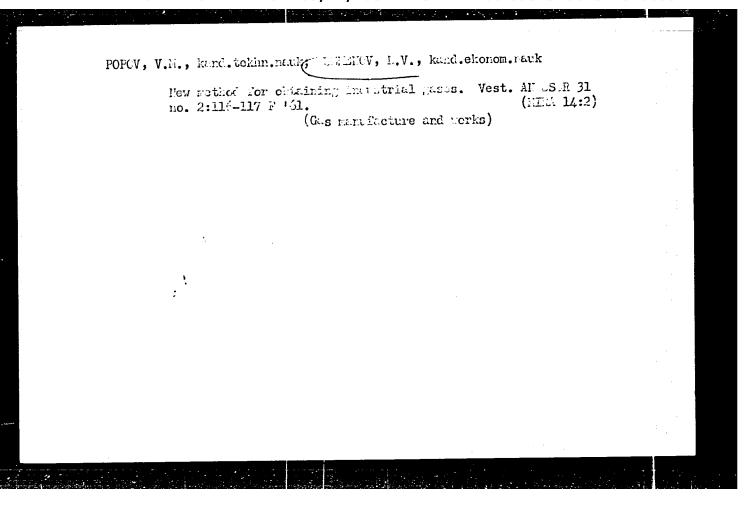
(Combustion)

Technological conferences. Ugol' 35 no.11:60-61 N '60.

(MIRA 13:12)

1. Institut goryuchikh iskopayemykh AN SSSR (for Semenov)
2. Dom tekhniki kombinata Rostovugol' (for Miroshnichenko).

(Coal mines and mining—Congresses)



SEMENOVA, N.K.; SEMENOV, L.V.; POPOV, V.M.

Technical and economic indices for the use of natural gas in openhearth process. Trudy IGI 16:467-477 '61. (MIRA 16:7) (Open-hearth process) (Gas, Natural)

SYCHEV, Sergey Mikhaylovich; SEMENOV, Leonid Vladimirovich; LOMAZOVA, K.L., red.; UL'YANETS, A.A., tekhn. red.

[Organization of planning and estimating work in building] Organizatsiia proektno-smetnogo dela v stroitel'-stve. Kiev, Gosstroiizdat USSR, 1963. 121 p.

(MIRA 17:2)

SEMENOV, L.V.

Production of containers from polyethylene films. Prom. khim. reak. i osobo chist. veshch. no.1:36 '63. (MIRA 17:2)

SEMENOV, L.V.; DAVYDOV, V.F.

Ore-fuel granules represent a new efficient material in metallurgy. Trudy IGI 22:131-135 '63. (MIRA 16:11)

DAVYDOV, V.P.; SEMENOV; L.V.; VASIL'YEV, S.F.

Oxidizing pyrolysis of gasolines. Nefteper. i neftekhim. no.10:2326 '63. (MIRA 17:2)

1. Institut goryuchikh iskopayemykh AN SSSR.

DAVYDOV, V.P.; SEMENOV, L.V.; KONSTANTINOVA, T.N.

Economic efficiency and prospects of introducing the method of coke charge granulation in industry. Trudy IGI 22:169-177 (MIRA 16:11)

DAVYDOV, V.P.; SEMENOV, L.V. Technical and economic indices of the production of high quality solvents. Khim. i tekh. topl. i masel 8 no.12:43-45 D '63.

(MIRA 17:1)

1. Institut goryuchikh iskopayemykh AN SSSR.

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